Alberta Notifiable Disease Summary

2024

Alberta

Primary and Preventative Health Services, Government of Alberta
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Key Highlights

- **Cryptosporidiosis:** Although there has been an increase in cases over the past five years, the case rate is similar to pre-2020 rates. In 2024, 171 cases were reported (3.50 per 100,000 population) compared to 122 cases (2.60 per 100,000 population) in 2023. Data prior to 2020 are available on the Alberta Interactive Health Data Application.
- **Hepatitis C:** Cases of hepatitis C have been decreasing in Alberta since 2021. In 2024, 426 cases were reported (8.71 per 100,000 population), down from 479 cases (10.23 per 100,000 population) in 2023. This decrease occurred in all zones in Alberta. Although the reason for the decrease has not been investigated, it may be related to the availability of direct-acting antivirals for treatment.
- **Human Immunodeficiency Virus (HIV):** Diagnoses of HIV in Alberta increased in 2023 and remained high in 2024. There were 435 cases of HIV reported in 2024, 509 cases in 2023, and 295 cases in 2022. Most HIV cases reported in 2023 and 2024 were among individuals who likely acquired the disease prior to their arrival in Canada (62.1 and 71.0 per cent, respectively) and were aware of the HIV-positive status. Conversely, infections that were likely locally acquired in Canada (or acquired while traveling abroad as an Alberta resident) decreased from 193 cases (37.9 per cent) in 2023 to 126 cases (29.0 per cent) in 2024. This information helps identify patterns of domestic transmission, informs targeted prevention efforts within Alberta, and ensures that healthcare services and community supports are appropriately resourced to meet the needs of all Albertans living with HIV. More information on sexually transmitted and blood borne infections (STBBIs) in Alberta can be found here.
- **Legionellosis:** In 2024, the highest number of cases (n = 23) were reported since 2012 for both infections locally acquired in Alberta (n = 14) and infections acquired while travelling outside of Alberta either domestically or internationally (n = 8). There was one case in 2024 where location of acquisition could not be determined. Most locally acquired cases were reported in the North Zone (n = 7), but every zone reported at least one case. An outbreak was reported in the North Zone with two linked cases, but no source was identified.
- **Measles:** Two measles cases were reported in 2024 in children under 10 years of age that were associated with international travel. There was no secondary transmission of measles infection to other people.
- **Mpox:** In 2024, 15 cases were reported compared to 3 cases reported in 2023. Most cases (n = 12) were among gay, bisexual, and men-who-have-sex-with-men, and approximately two-thirds (n = 9) reported travel outside of Alberta. No cases of mpox clade 1b were detected in Alberta.
- **Pneumococcal Disease, Invasive (IPD):** There were 801 cases reported in 2024 compared to 816 cases in 2023. Despite this modest decrease, cases remained high. Pneumococcal immunizations are offered through the routine childhood immunization program, to individuals aged 65 and older and to those at higher risk of severe outcomes. Of the 801 cases reported in 2024, nearly three quarters (n = 595, 74.3 per cent) were classified as high risk of severe outcomes (at least one medical comorbidity, such as chronic cardiac disease, respiratory disease, or an immunocompromising condition). Most cases (n = 691; 79.5%) were considered vaccine-preventable, but only 22.7 per cent (n = 157) of those cases were immunized. Most cases were among those aged 18 to 64 years (n = 494; 61.7%) and 65 years and older (n = 243; 30.3%).
- **Shigellosis:** In 2024, 349 cases were reported, an increase from 259 in 2023. Most cases occurred in the Edmonton and Calgary Zones. The Edmonton Zone outbreak declared in 2022 continued into 2024. Three new outbreaks were reported in 2024 in the Calgary Zone, Central Zone and Edmonton Zone.
- **Streptococcal Disease - Group A, Invasive (iGAS):** An increase in iGAS cases associated with *emm type* 1 was initially observed in 2023. Although cases decreased from 771 cases in 2023 to 583 cases in 2024, they remained high compared to previous years. The percentage of cases reported among individuals 18 and under decreased from 16.7 per cent in 2023 to 9.1 per cent in 2024, while cases among adults aged 65 and older increased from 20.0 per cent to 27.4 per cent. The percentage of cases among those aged 19 to 64 years old remained relatively stable (63.3 per cent in 2023 and 63.5 per cent in 2024).

- **Syphilis:** Infectious and congenital syphilis cases reported in 2024 remained high but decreased compared to 2023. Congenital syphilis cases decreased to 52 cases in 2024 (101.4 cases per 100,000 live births) from 60 cases in 2023 (125.3 cases per 100,000 live births). In 2024, infectious syphilis cases decreased to 2,145 (43.69 per 100,000 population) from 2,712 (57.84 per 100,000 population) in 2023. Non-infectious syphilis cases remained relatively unchanged at 842 (17.15 per 100,000 population) in 2024 compared to 841 (17.94 per 100,000 population) in 2023. More information on STBBIs in Alberta can be found here.
- Additional information on notifiable infectious diseases in Alberta is available on Primary and Preventative Health Services' Interactive Health Data Application and in Other Primary and Preventative Health Services Publications.

Table 1 Total number of notifiable communicable diseases reported in Alberta, 2020 to 2024

Disease Name	2020	2021	2022	2023	2024
Acute Flaccid Paralysis	5	2	5	5	0
Amoebiasis	23	18	35	37	52
Botulism	1	2	1	2	0
Brucellosis	0	3	8	0	0
Campylobacteriosis	918	840	884	838	926
Carbapenemase Producing Organisms	43	48	106	145	174
Chikungunya Virus	0	0	3	3	1
Chlamydia (including Lymphogranuloma venereum)	14,116	14,073	16,804	17,624	16,307
Creutzfeldt-Jakob Disease, Classic	4	5	14	7	5
Cryptosporidiosis	98	63	96	122	171
Cyclosporiasis	0	2	11	4	8
Dengue Fever	27	25	51	97	173
Escherichia coli (Verotoxigenic)	222	249	362	963	575
Flavivirus (Other)	4	0	0	4	0
Giardiasis	243	238	270	311	354
Gonorrhea	4,896	5,019	4,985	5,429	5,357
Haemolytic Uremic Syndrome	4	7	11	28	8
Haemophilus influenzae - Non-serotype B, Invasive	40	37	102	101	117
Haemophilus influenzae - Serotype B, Invasive	0	1	0	1	5
Hantavirus	2	0	1	3	1
Hepatitis A	16	15	41	59	50
Hepatitis B	457	440	590	830	891
Hepatitis B (acute cases)	18	6	12	11	16
Hepatitis B (chronic carriers)	432	428	563	799	858
Hepatitis B (unknown carrier status)	7	6	15	20	17
Hepatitis C	601	646	548	479	426
Hepatitis C (acute cases)	85	87	78	42	21
Hepatitis C (chronic carriers)	508	554	467	436	404
Hepatitis C (unknown carrier status)	8	5	3	1	1
Hepatitis E	2	3	1	4	7
Histoplasmosis	4	2	6	6	7
Human Immunodeficiency Virus	196	248	295	509	435
Influenza A, Seasonal	3,483	32	11,169	10,660	4,648
Influenza B, Seasonal	2,124	2	35	1,033	4,086
Influenza, Novel	1	0	0	0	0
Jamestown Canyon Virus	3	1	0	0	0
Legionellosis	10	10	16	13	23
Leprosy	0	2	2	2	0
Listeriosis (includes congenital)	7	6	15	8	13
Lyme Disease	4	16	17	20	31
Malaria	44	44	75	108	125
Measles	1	0	0	1	2
Meningococcal Disease, Invasive	13	9	7	1	7
Mpox	0	0	44	3	15
Mumps	14	5	9	16	13
Paratyphoid Fever (case and carrier)	10	2	17	25	26
Pertussis	134	1	13	894	603
Pneumococcal Disease, Invasive	294	320	626	816	801
Q Fever	1	1	0	3	1
Rare Or Emerging Communicable Disease	1	2	3	2	6

(continued)

Disease Name	2020	2021	2022	2023	2024
Respiratory syncytial virus	0	0	0	0	1,189
Rickettsial Infection (includes Rocky Mountain Spotted Fever)	4	0	1	0	1
Salmonellosis	779	456	577	643	730
Shellfish Poisoning	0	0	0	2	0
Shigellosis	54	24	286	259	349
Snowshoe Hare Virus Infection	1	0	0	0	0
Streptococcal Disease - Group A, Invasive	434	358	434	771	583
Syphilis, Congenital	57	76	82	60	52
Syphilis, Infectious (Primary, secondary and early latent)	2,521	3,245	3,316	2,712	2,145
Syphilis, Non-infectious (Late latent)	338	415	557	841	842
Tetanus	0	1	1	0	0
Tuberculosis	251	241	244	272	286
Tularemia	1	0	1	0	4
Typhoid Fever - Case And Carrier	9	8	33	33	45
Varicella (Chickenpox; Hospitalized)	6	4	14	15	21
Vibrio cholerae (non O1, non O139)	0	3	0	1	3
Vibrio parahaemolyticus	1	0	1	0	0
West Nile Virus, Asymptomatic Infection	1	0	0	4	0
West Nile Virus, Neurological Syndrome	0	0	0	6	0
West Nile Virus, Non-Neurological Syndrome	0	0	0	4	2
Yersiniosis	31	43	39	58	55
Zika Virus	0	0	1	0	0

[1] Year is based on diagnosis date.

[2] Numbers may change from previous reports due to improvements in data cleaning and delayed reporting.

[3] In 2024, cases reported under the rare and emerging communicable diseases category were *Paeniclostridium sordelli* (2 cases), *Arcobacter butzleri* (2 cases), anaplasmosis (1 case), and taeniasis (1 case).

[4] The National Microbiology Lab (NML) has updated their laboratory methodology in 2024 for identifying toxigenic cutaneous diphtheria. NML retrospectively re-tested Alberta cases using the new methodology, all cases were identified as non-toxigenic and therefore removed from the historic case counts.

Table 2 Rates (per 100,000 population) of notifiable communicable diseases reported in Alberta, 2020 to 2024

Disease Name	2020	2021	2022	2023	2024
Acute Flaccid Paralysis	0.11	0.05	0.11	0.11	0.00
Amoebiasis	0.52	0.41	0.78	0.79	1.06
Botulism	0.02	0.05	0.02	0.04	0.00
Brucellosis	0.00	0.07	0.18	0.00	0.00
Campylobacteriosis	20.83	18.96	19.60	17.89	18.94
Carbapenemase Producing Organisms	0.98	1.08	2.35	3.10	3.56
Chikungunya Virus	0.00	0.00	0.07	0.06	0.02
Chlamydia (including Lymphogranuloma venereum)	320.27	317.56	372.37	375.89	332.18
Creutzfeldt-Jakob Disease, Classic	0.09	0.11	0.31	0.15	0.10
Cryptosporidiosis	2.22	1.42	2.13	2.60	3.50
Cyclosporiasis	0.00	0.05	0.24	0.09	0.16
Dengue Fever	0.61	0.56	1.13	2.07	3.54
Escherichia coli (Verotoxigenic)	5.04	5.62	8.03	20.56	11.76
Flavivirus (Other)	0.09	0.00	0.00	0.09	0.00
Giardiasis	5.51	5.37	5.99	6.64	7.24
Gonorrhea	111.08	113.26	110.47	115.79	109.13
Haemolytic Uremic Syndrome	0.09	0.16	0.24	0.60	0.16
Haemophilus influenzae - Non-serotype B, Invasive	0.91	0.83	2.26	2.16	2.39
Haemophilus influenzae - Serotype B, Invasive	0.00	0.02	0.00	0.02	0.10
Hantavirus	0.05	0.00	0.02	0.06	0.02
Hepatitis A	0.36	0.34	0.91	1.26	1.02
Hepatitis B	10.37	9.93	13.08	17.72	18.23
Hepatitis B (acute cases)	0.41	0.14	0.27	0.23	0.33
Hepatitis B (chronic carriers)	9.80	9.66	12.48	17.06	17.55
Hepatitis B (unknown carrier status)	0.16	0.14	0.33	0.43	0.35
Hepatitis C	13.64	14.58	12.15	10.23	8.71
Hepatitis C (acute cases)	1.93	1.96	1.73	0.90	0.43
Hepatitis C (chronic carriers)	11.53	12.50	10.35	9.31	8.26
Hepatitis C (unknown carrier status)	0.18	0.11	0.07	0.02	0.02
Hepatitis E	0.05	0.07	0.02	0.09	0.14
Histoplasmosis	0.09	0.05	0.13	0.13	0.14
Human Immunodeficiency Virus	4.45	5.60	6.54	10.86	8.86
Influenza A, Seasonal	79.02	0.72	247.61	227.56	95.08
Influenza B, Seasonal	48.19	0.05	0.78	22.05	83.58
Influenza, Novel	0.02	0.00	0.00	0.00	0.00
Jamestown Canyon Virus	0.07	0.02	0.00	0.00	0.00
Legionellosis	0.23	0.23	0.35	0.28	0.47
Leprosy	0.00	0.05	0.04	0.04	0.00
Listeriosis (includes congenital)	0.16	0.14	0.33	0.17	0.27
Lyme Disease	0.09	0.36	0.38	0.43	0.63
Malaria	1.00	0.99	1.66	2.31	2.56
Measles	0.02	0.00	0.00	0.02	0.04
Meningococcal Disease, Invasive	0.29	0.20	0.16	0.02	0.14
Mpox	0.00	0.00	0.98	0.06	0.31
Mumps	0.32	0.11	0.20	0.34	0.27
Paratyphoid Fever (case and carrier)	0.23	0.05	0.38	0.53	0.53
Pertussis	3.04	0.02	0.29	19.08	12.33
Pneumococcal Disease, Invasive	6.67	7.22	13.88	17.42	16.38
Q Fever	0.02	0.02	0.00	0.06	0.02
Rare Or Emerging Communicable Disease	0.02	0.05	0.07	0.04	0.12

(continued)

Disease Name	2020	2021	2022	2023	2024
Respiratory syncytial virus	0.00	0.00	0.00	0.00	24.32
Rickettsial Infection (includes Rocky Mountain Spotted Fever)	0.09	0.00	0.02	0.00	0.02
Salmonellosis	17.67	10.29	12.79	13.73	14.93
Shellfish Poisoning	0.00	0.00	0.00	0.04	0.00
Shigellosis	1.23	0.54	6.34	5.53	7.14
Snowshoe Hare Virus Infection	0.02	0.00	0.00	0.00	0.00
Streptococcal Disease - Group A, Invasive	9.85	8.08	9.62	16.46	11.93
Syphilis, Congenital	1.29	1.71	1.82	1.28	1.06
Syphilis, Infectious (Primary, secondary and early latent)	57.20	73.23	73.48	57.84	43.69
Syphilis, Non-infectious (Late latent)	7.67	9.36	12.34	17.94	17.15
Tetanus	0.00	0.02	0.02	0.00	0.00
Tuberculosis	5.69	5.44	5.41	5.81	5.85
Tularemia	0.02	0.00	0.02	0.00	0.08
Typhoid Fever - Case And Carrier	0.20	0.18	0.73	0.70	0.92
Varicella (Chickenpox; Hospitalized)	0.14	0.09	0.31	0.32	0.43
Vibrio cholerae (non O1, non O139)	0.00	0.07	0.00	0.02	0.06
Vibrio parahaemolyticus	0.02	0.00	0.02	0.00	0.00
West Nile Virus, Asymptomatic Infection	0.02	0.00	0.00	0.09	0.00
West Nile Virus, Neurological Syndrome	0.00	0.00	0.00	0.13	0.00
West Nile Virus, Non-Neurological Syndrome	0.00	0.00	0.00	0.09	0.04
Yersiniosis	0.70	0.97	0.86	1.24	1.13
Zika Virus	0.00	0.00	0.02	0.00	0.00

[1] Year is based on diagnosis date.

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[3] In 2024, cases reported under the rare and emerging communicable diseases category were *Paeniclostridium sordelli* (2 cases), *Arcobacter butzleri* (2 cases), anaplasmosis (1 case), and taeniasis (1 case).

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Other Primary and Preventative Health Services Publications

- Alberta Notifiable Disease Guidelines
  https://www.alberta.ca/notifiable-disease-guidelines.aspx
- Alberta STI Summary Report
  https://open.alberta.ca/publications/9781460145449
- Alberta Tick Surveillance Dashboard
  https://www.alberta.ca/dashboard/tick-surveillance.htm
- Historical Alberta Tick Surveillance Report
  https://open.alberta.ca/publications/2369-0690
- Historical Seasonal Influenza in Alberta Report
  https://open.alberta.ca/publications/2561-3154
- Alberta Respiratory Virus Dashboard
  https://www.alberta.ca/stats/dashboard/respiratory-virus-dashboard.htm
- Historical Trends of Selected Notifiable Communicable Diseases in Alberta, 1919 to 2014
  https://open.alberta.ca/publications/9781460125618